

City of Marquette

Dual-Stream Recycling Overview



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U.P. Solid Waste Forum
Thursday, February 26th, 2015



Background: Mission

- Environment/Recycle-Reuse-Diversion
- Value/Control costs of MSW program



Background: City Services

- Curbside Garbage Collection
- Curbside Recycling Collection
- City Facility Dumpster Collection
- Rubbish Drop Off Site
- Compost Drop Off Site (not active in winter)
- Christmas Tree Drop Off Site
- Curbside brush/leaf collection (spring and fall)



Background: Costs

- Current
 - \$14.65 flat rate on monthly utility bills
 - \$1.50 per bag – “pay as you throw”
- Average: 1 bag/household/week
- Average: \$21.15/month for MSW disposal
 - \$6.50/month on bags
 - \$14.65 flat rate



Background: “Zero Waste”

- Zero Waste: Goal v. Reality
- Recycling and Solid Waste Breakdown
 - 45% Traditional Recycled Materials
 - 43% Organics
 - 9% Garbage
 - 2% Household Hazardous Waste (HHW)
 - 1% Electronics

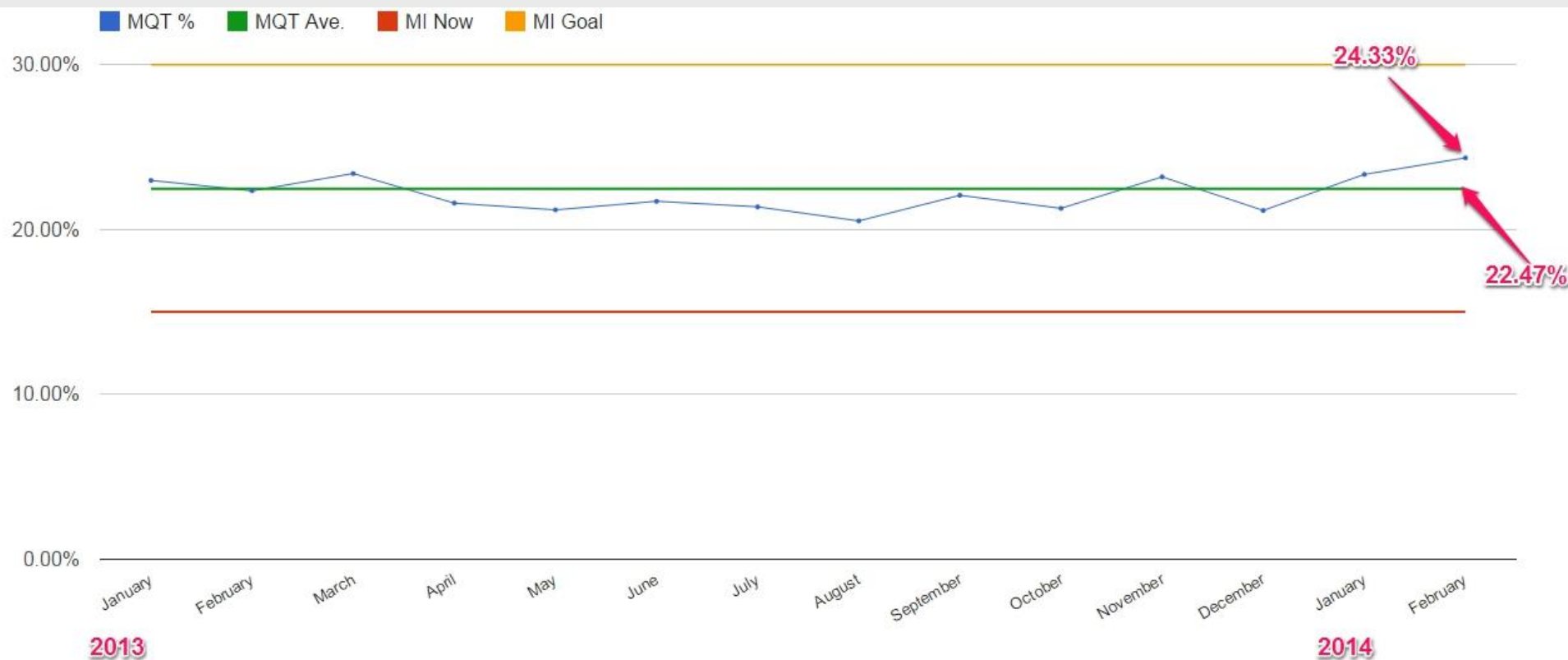
Source: 2011 Maine Residential Waste Characterization Study – U. of Maine



Background: Single-stream

- Previously: Single-stream curbside collection through WM
- Recycling Rate: ~21-22% in 2013
- Public Input/Questions

Recycling Rate (Jan. 2013-Feb. 2014)





Background: Goals/Practices

- Reduce/Reuse/Recycle
- Minimize carbon footprint
- Pursuit of the four sectors of sustainability
- Educational Focus
 - Sustainability
 - Health and quality of life
 - Developing and financing new markets
 - Collaborating across sectors and jurisdictions



Background: Looking Ahead

- Hauler service costs were rising
- There was an anticipation that landfill tipping fees – which are ultimately passed on to the City and then to the resident – may soon increase. This is now happening.
- City wanted to control costs for the customer while providing equal or better service/access
- MCSWMA Director approached City



The Plan

- MCSWMA eyeing countywide program
- City would deliver material to MCSWMA
- Authority would:
 - Process
 - Market
 - Deliver to end users



The Plan

- MCSWMA would cover their costs, and return 60% of remainder to the City
- A caveat: MCSWMA would need to operate in a dual-stream system
 - Pros: Cleaner streams for marketing
 - Cons: Less overall material recycled



The New System

- Agreement in Feb. 2014
- Switch in May 2014
- Two streams: Fibers and Rigid
- Alternating weekly curbside collection
- Anticipatory outreach
 - Media
 - Mailings
 - Forums

The New System

The flyer/schedule is located at various public venues and can also be found on the City website. Additionally each resident receives a copy of the flyer in their utility bill.



Marquette
www.marqcity.org

RECYCLING

A Dual-Stream System



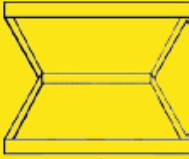





In the City of Marquette, recyclable materials are divided into two separate "streams," which are collected on alternating weeks at the same time as your garbage.

These materials are transported to the Marquette County Solid Waste Management Authority's headquarters in Sands Township, where they are sorted, processed and marketed through regional networks.

So when you set your garbage out for weekly collection, just place your recyclables — Fibers or Rigid, depending on the week — at the end of your drive, behind the curb, in any hard-walled bin or container. Please utilize a lid if you have one.

All we ask is that you separate containers and lids, and break down large pieces of cardboard into a manageable size (about 2' x 2').

The chart to the right will help differentiate between Fibers and Rigid. A 2015 schedule is on the back.

FIBERS	RIGIDS
<p>Paper + Cardboard Staples and plastic envelope windows may be included</p> <div style="text-align: center;">  Newspapers and magazines </div> <div style="text-align: center;">  Mail & envelopes </div> <div style="text-align: center;">  Pizza boxes </div> <div style="text-align: center;">  Books (hard & soft cover) </div>	<p>Plastic + Metal + Glass Labels can stay, but please rinse containers & remove lids</p> <div style="text-align: center;">  Glass bottles, jugs & jars </div> <div style="text-align: center;">  Medicine bottles </div> <div style="text-align: center;">  Tin cans </div> <div style="text-align: center;">  Plastic bottles </div>
<p>ALSO</p> <ul style="list-style-type: none"> Corrugated cardboard Shoe boxes Cardboard egg cartons Beverage cartons and boxes Paper shopping bags Office paper Folders Phone books Spiralbound notebooks Non-metallic gift wrapping 	<p>ALSO</p> <ul style="list-style-type: none"> Soda/condiment containers Mouthwash bottles Juice bottles Milk jugs Yogurt and margarine tubs Reusable water bottles Detergent/shampoo bottles Hard plastic toys Utensils CD and DVD cases

City of Marquette Public Works | pubworks@marqcity.org | 228-0444
MCSWMA | mqtcnrecycling@gmail.com | 249-4125
www.marqcity.org/pwrecycle.php
www.mcswma.com





The New System

- Learning curve
 - July 2014: 17.79%
- Additional outreach
 - Forums
 - Flyers/Posters
 - Website/Social Media
 - Drop-off Locations

The New System

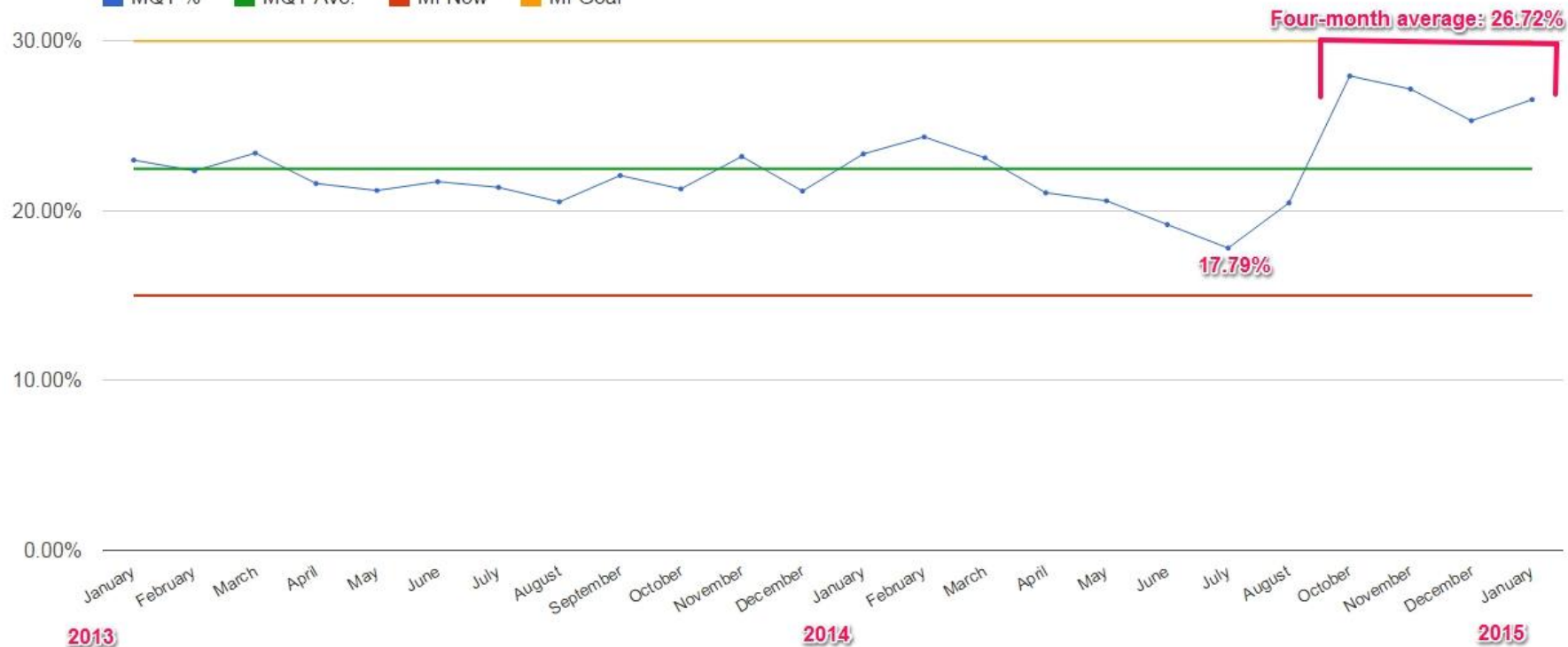
A static link at the top of the City website identifies the correct week for collection, and links to relevant info.



Recycling Rate (Jan. 2013-Jan. 2015)

Recycling Percentage (Jan. 2013-Jan. 2015)

■ MQT % ■ MQT Ave. ■ MI Now ■ MI Goal





Early Results

- Increased rate extends the life of the landfill
 - This benefits all MCSWMA constituents
- Regional recycling lowers carbon footprint
- Residents can see the process
- Made recycling more readily available
- 60% Share: Nearly \$5,000 from May-Dec
 - ~\$12.50/ton



Next Steps

- Additional outreach
 - Rentals/Off-campus students
 - Talking about recycling promotes recycling
- Listening to resident feedback
 - Pizza boxes
 - Bins/Containers
 - Organics
 - More drop-off locations